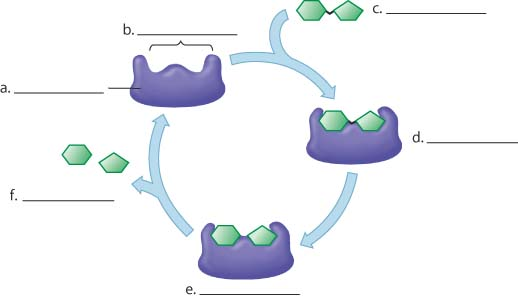
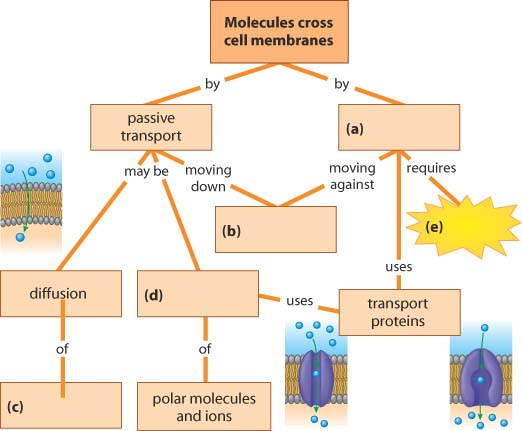
Student Practice:





1. How do the two laws of thermodynamics apply to living organisms?

1. What are the main types of cellular work? How does ATP provide the energy for this work? Why is the barrier of activation energy beneficial for organic molecules? Explain how enzymes lower EA.
2. How do the components and structure of cell membranes relate to the functions of membranes?
3. Explain how each of the following food preservation methods would interfere with a microbe’s enzyme activity and ability to break down food: canning (heating), freezing, pickling (soaking in acetic acid), salting.